



## From Secretary-General's Desk

Dear Colleagues,

As mentioned in the previous News Update issues, ICID is gearing towards organizing the 24th ICID Congress and the 73rd IEC meeting from 3-10 October, 2022 in Adelaide, Australia. The Main theme for the congress is **'Innovation and Research in Agriculture Water Management to Achieve Sustainable Development Goals'**. As per the practice, the event will address two contemporary questions: Question 62: What Role Can Information and Communication Technology Play in Travelling the Last Mile? and Question 63: What Role Is Played by Multi-Disciplinary Dialogue to Achieve Sustainable Development Goals? Ms. Karlene Maywald, the Hon'ble Water Ambassador of Southern Australia will deliver the N.D. Gulhati Lecture during the Congress. Several other global prominent leaders, policymakers and experts are invited to attend the event and provide their inputs on the role of agricultural water management in achieving the sustainable development goals outlined by the United Nations. Several technical sessions and workshops will be held during the congress on various thematic working groups of ICID. Additionally, the event will also host several side events



Young Professionals training program by esteemed international organizations. Considering the significance of the event for the future discourse, I invite you all to join the event in making it a grand success. More details regarding the event are available at: <https://www.icid2022.com.au/> and [https://icid-ciid.org/event/event\\_details/2](https://icid-ciid.org/event/event_details/2). In case you have a specific query, please don't hesitate to contact ICID at: [icid@icid.org](mailto:icid@icid.org).

During the month, ICID conducted two webinars on 'Innovative Coastal Protection on Mangrove Coast'; and 'Capacity Building in Agricultural Water Management is in 'Intensive Care Unit' – Can It Be Rejuvenated?'. Details of the webinars are given in the news update with full recordings of the webinar for you to access. Ms. Karlene Maywald, Chair of the National Water Commission (South Australia), visited the ICID Central Office this month. She has keenly provided her insights and experiences of the Murray Darling Basin in Australia to the ICID Task Team on Transboundary Water Management (TT-TWM) since its inception.

ICID is also planning to participate and organize a side event on water security of India during India Water Week 2022 to generate a focussed dialogue on the subject. To this end, a meeting was convened at Central Water Commission (CWC) on 21 July 2022, which was attended by senior officials from ICID, NWDA, CWC, CPR and Ministry of Jal

Shakti to efficaciously plan and conduct the event.

Apart from the Congress, there are several other major ICID events lined up for the upcoming year. The 10th International Micro Irrigation Conference will jointly be hosted by the Moroccan National Committee on Irrigation and Drainage (ANAFIDE) and ICID with support from the Directorate of Irrigation and Agricultural Land Planning (DIAEA) of the Government of Morocco from 25-27 January 2023 in Dakhla, Morocco. The Fourth World Irrigation Forum (WIF4), together with the 74th International Executive Council (IEC) Meeting, will be hosted by the Ministry of Water Resources of the People's Republic of China, and the Chinese National Committee on Irrigation and Drainage (CNCID), organized by the China Institute of Water Resources and Hydropower Research, from 16- 22 April 2023 in Beijing, China. The 25th ICID Congress and the 75th IEC Meeting in Vizag city of Southern India in November 2023.

I look forward to meeting you during the above events and thank you for your continued support.

With best regards,

**Ashwin B. Pandya**  
Secretary General, ICID

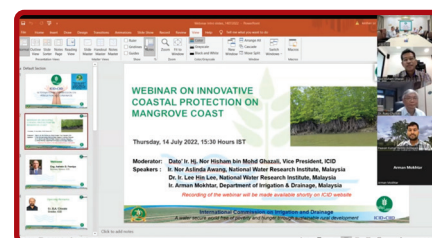
## ICID Organized a Webinar on Innovative Coastal Protection on Mangrove Coast; 14 July 2022

A webinar was organized by ICID on 14 July 22 on Innovative Coastal Protection on Mangrove Coast in collaboration with the Working Group on Sustainable Development of Tidal Areas (WG-SDTA), National Water Research Institute, Malaysia, and the Department of Irrigation & Drainage, Malaysia.

The webinar was attended and Moderated by Vice President Ir. Hj. Nor Hisham bin Mohd Ghazali and Speakers, Ir.

Nor Aslinda Awang of National Water Research Institute Malaysia, Dr. Ir. Lee Hin Lee of National Water Research Institute, Malaysia & Ir. Arman Mokhtar, Department of Irrigation & Drainage Malaysia.

All the participants were welcomed and introduced by Secretary General. The webinar was made open him with a short presentation on the importance of coastal protection in water management, factors



for degradation including development projects, marine pollution, other kinetic energy etc., were emphasized by him.

A presentation was made by Ir. Nor Aslinda Awang, NWRIM on "Mangroves: Diversity, Importance, Threats &

Conservation Efforts in Malaysia". The aspects of the Malaysian coastline, importance of mangroves, coastal erosion in Malaysia, sea level rise in Malaysia, the monetary value of the mangroves and their global distribution and community involvement in mangroves restoration and rehabilitation, were also brought out by her.

The issues of hydro-dynamic research, hydro-dynamic vs survival rate of mangroves (case study) and the challenges of mangroves plantation in the backdrop of sea-level rise were talked about by Dr Ir. Lee Hin Lee, NWRIM. A presentation was also made by Ir. Arman Mokhtar, Department of Irrigation & Drainage Malaysia on "Eco-friendly raft pile foundation system as an alternative piling for soft ground area in Malaysia", whereby the areas including the importance of the piling system, foundation alternatives, mangrove deforestation & engineering problems in soft ground areas, were highlighted by her. The webinar ended with a question/answer session. Secretary General Pandya thanked all the participants for making the event successful.

### About

Malaysia's mangrove forests have experienced much degradation over the last two decades. It has resulted in an increase in incidents of wave overtopping and erosion of the coastal embankments that protect the agricultural areas adjacent to the sea. In Malaysia, the mangrove forest distribution is estimated at 0.58 Mha, with some of the forests being gazetted as Permanent Reserved Forest (PRF) to conserve and protect the forest for future generations. Nevertheless, there has been a rise in coastal embankment damage incidents due to storm waves and high tides. Whilst structural solutions have been implemented over the years, the 2004 tsunami prompted the Malaysian government to introduce a nationwide

mangrove replanting program. Faced with the high mortality of saplings and the challenge of constructing embankments on the muddy shores where mangroves are present, several innovations were introduced to create a working-with-nature type of coastal protection. The webinar intends to share some of the efforts carried out in Malaysia with regard to protecting the mangrove shoreline and improving the construction of coastal embankments.

### Moderator

**Vice President Ir. Hj. Nor Hisham bin Mohd Ghazali:** Dato' Ir. Nor Hisham Bin Mohd. Ghazali is the Director-General of the National Institute of Water Research Malaysia (NAHRIM), Ministry of Environment and Water. He holds a B.Sc. in Civil Engineering from California State University and an MS in Coastal and Maritime Engineering from University Teknologi Malaysia. Previously, he served the Department of Irrigation and Drainage Malaysia for 34 years in operational, technical, management and policy positions and culminating as Director General. Dato' Ir. Nor Hisham is also a Vice-President of the International Commission on Irrigation and Drainage (ICID). He aspires to position NAHRIM towards becoming a leading research institute for water and the environment in the region.

### Speakers

**Ir. Nor Aslinda Awang, National Water Research Institute Malaysia:** Nor Aslinda is currently the Director of Hydraulic Laboratory and Instrumentation, NAHRIM. She first joined NAHRIM as a Research Officer in 2000 and served in the Coastal Management and Oceanography Research Centre. Nor Aslinda has more than 20 years of working experience in various research & development projects concerning coastal hydraulics, especially on numerical hydrodynamic modelling

for coastal and mangrove replanting. Recently, she has been involved in research on climate change and sea level rise impacts on the coastal area and physical modelling of the effects of coastal protection structures on the estuarine and coastal morphology.

**Dr. Ir. Lee Hin Lee, National Water Research Institute Malaysia:** Ir. Dr. Lee is currently the Director of the Coastal and Oceanography Research Centre at the National Water Research Institute of Malaysia (NAHRIM). Ir. Dr. Lee Hin Lee has about 30 years of experience in civil engineering and environmental research. She is skilled in the physical and biological analysis of rivers, lakes, estuaries and nearshore waters. She has wide experience in using numerical modelling and geospatial analysis tools in analyzing and predicting spatial and temporal morphological changes on a basin scale and in nearshore areas. Ir. Dr. Lee currently leads research into response and adaptation against sea level rise and storm surge.

**Ir. Arman Mokhtar, Department of Irrigation & Drainage Malaysia:** Ir. Arman joined the Department of Irrigation and Drainage Malaysia in 2001 and is presently the Deputy Director and Subject Matter Expert at the Coastal Zone Management Division. He is a Professional Engineer with Practicing Certificate and an ASEAN Chartered Professional Engineer. He has over 20 years of experience in coastal and hydraulic engineering, dredging and reclamation works, coastal numerical modelling and design of coastal structures. He is now actively working on innovative coastal engineering designs for various agencies in Malaysia.

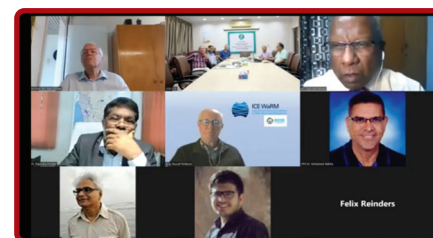
For full access of the recorded webinar, please visit: <https://www.youtube.com/watch?v=Q0Yev05E3Q8&t=5801s>



## ICID Organized a Webinar on Capacity Building in Agricultural Water Management-in -‘Intensive Care Unit’ – Can It Be Rejuvenated?

ICID organized a webinar on 20 July 22 on Capacity Building in Agricultural Water Management in 'Intensive Care Unit' – Can It Be Rejuvenated? in collaboration with the Working Group on Capacity Development, Training and Education (WG-CDTE), Water And Land

Management Institute (WALMI), India and IHE. The webinar was attended by the Moderator, Prof. Dr. Vijay K Labhsetwa, and Panelists, 1. Mr. Russel Rollason (Australia); 2. Eng. Pradeep Purandare (India); 3. PH Prof. Em. Dr. Ir. Bart Schultz Bart Schultz (The Netherlands);



4. VPH Dr. Mohamed Abd El Moneim Wahba. To access the recorded webinar, please visit: <https://www.youtube.com/watch?v=Gc0xQQhoquo&t=4513s>

## About

What is 'Capacity Building', 'Capacity Development' or 'Capacity Strengthening'? Capacity building is the process through which individuals, organizations, and societies obtain, strengthen, and maintain the capabilities to set and achieve their development objectives over time. It is the improvement in an individual or organization's facility (or ability) "to produce, perform or deploy". The terms capacity building and capacity development and capacity strengthening have often been used interchangeably.

According to the United Nations Development Programme (UNDP) definition: "In the global context, capacity refers to the ability of individuals and institutions to make and implement decisions and perform functions in an effective, efficient, and sustainable manner.

What is training? Training refers to the process of changing attitudes and behaviours of individuals - imparting knowledge and developing skills while maximizing the benefits of participation and knowledge exchange.

But, in emerging and least developed countries, We Have A Long Way To Go - World Food Summit (1996) and Millennium Summit (2000) suggested cutting the number of under-nourished to half (by 2015). But, unfortunately, the population of undernourished people is still about 768 million worldwide (FAO, 2020). The world population of 7.8 billion is expected to reach 8.6 billion in 2030 and 9.7 billion in 2050 (Population Reference Bureau, 2021). Most of the addition will be in urban areas in emerging and least developed countries, and we need to double our food production to feed these people. Many factors influence this agricultural growth vis-a-vis food grain production.

Capacity Development in agricultural water management, among others, plays a crucial role in increasing food production, possibly reducing undernourishment and achieving the challenge of Zero Hunger. Towards this long vision, ICID had first established the WG-CDTE in 1995, which had been gasping and eventually closed in 2007, apparently for lack of interest! Similarly, the International Centre for Excellence in Water Resources Management (ICE WaRM) in Australia also suffered a somewhat parallel setback some years ago. ICE WaRM focused its efforts internationally and became a victim of



COVID-19 travel restrictions as well as changing government priorities in development assistance.

### Moderator

**Prof. Dr. Vijay K Labhsetwar (India):** Dr. Labhsetwar was the Director Technical at the International Commission on Irrigation and Drainage (ICID), New Delhi, India, from 2001 to 2018. He was further engaged with ICID as a Consultant till 2020. He has been a member of the Editorial Board of ICID Journal "Irrigation and Drainage" since 2006. He is also Vice Chair of ASRWG and WG-CBTE.

### Panelists

**Eng. Russell Rollason (Australia):** On joining eWater in October 2019, Russell Rollason brought 14 years of experience in the Department of Foreign Affairs and Trade designing and managing international development programs in water resource management in the Indo-Pacific region. He was instrumental in establishing the DFAT- funded Australian Water Partnership. In June 2020, he was appointed Executive Manager of the International Centre of Excellence in Integrated Water Resource Management, ICEWARM.

**Mr Pradeep Purandare** was a Former Associate Professor at WALMI, Aurangabad in the Maharashtra state of India. He has worked for six years for Water Resource Department and 28 years for WALMI. His areas of interest are Water laws, Governance and Regulation. He has significantly contributed to 10 state-level committees on water laws and irrigation management.

**Em. Prof. Bart Schultz (The Netherlands):** Em. Prof. Bart Schultz worked for almost 50 years in research, advising and project implementation in land and water development. He was

Head of the Water Management Division in the IJsselmeerpolders Development Authority, Head of the Environmental Engineering Department and Top Advisor in Rijkswaterstaat. At IHE Delft, he was responsible for education and research in Land and Water Development. He is the author of almost 350 papers and visited more than 35 countries to participate in research, appraisal, evaluate, or advise on projects and teach. He was President of ICID and winner of the 2nd World Irrigation and Drainage Prize.

**VPH Dr. Mohamed Abd El Moneim Wahba (Egypt), Chair, WG-CDTE:** Dr. Mohamed Wahba has many years of integrated and diverse experience starting from the field work and supervision of the implementation of projects for irrigation and drainage, research work and field studies, evaluation of the use of modern technologies in drainage networks and the use of drainage water for irrigation as well as savings in irrigation water, development and management of water resources, including the preparation, design and implementation of policies and strategies, in addition to supervision and follow-up implementation of large projects. Dr. Wahba, representative of the Egyptian government in several international and regional forums, including the International Commission on Irrigation, Drainage and the United Nations, where he was elected as Vice-President of ICID and Chairman of the African regional Working Group, a representative of the Ministry of Water Resources and Irrigation of the ESCWA Committee, coordinator of cooperation between the Ministry and similar ministries in China and Iraq, he was the former chairman of ENCID. Now he is a visiting international scientist at the Chinese Academy of Science.



If you are attending or planning to attend the ICID 24th International Congress in Adelaide in October 2022, then we have some important information for you.

Travellers to Australia are experiencing lengthy delays obtaining visas to enter Australia, this is a result of our borders opening after the pandemic.

We strongly recommend that you start the visa application process as soon as possible and the link below will take you to the Australian government website that contains the information needed to complete your visa application.

All visitors to Australia must have a valid visa to travel to and enter Australia (other than New Zealand passport holders who will normally be granted a Special Category visa on arrival). It is your responsibility to ensure documentation is correct and completed before you commence your journey. Delegates must register and complete full payment for the event before lodging their visa application.

Before lodging an application, you should determine which visa you should apply for. The Australian Government Department of Home Affairs "Find a Visa" (<https://immi.homeaffairs.gov.au/visas/getting-a-visa/visa-finder>) tool has the latest information on applying for a visa to visit Australia.

- Select the first option "Visa & Tourism" and then "Attending a Conference or Expo" you will then be asked to enter your country of passport.

- This will then have the requirements for your nationality including the fees that will apply.
- You can then select the details button to proceed to the application stage.
- If you are not vaccinated against COVID-19 it is still possible to enter Australia but you will have to provide a medical certificate detailing why you cannot be vaccinated. The requirements for an exemption are set out <https://www.health.gov.au/health-alerts/covid-19/international-travel-proof-of-vaccination>

If you have questions regarding your visa you can seek assistance at this link (<https://immi.homeaffairs.gov.au/help-support/who-can-help-with-your-application/overview>) there is no fee for this service. Again we encourage you to act soon if you wish to obtain a visa to enter Australia. To register for the event and take advantage of the Early Bird price discount click

<https://immi.homeaffairs.gov.au/help-support/who-can-help-with-your-application/overview>

We look forward to seeing you in Adelaide in October.

Kind regards

**Bryan Ward, CEO**  
Irrigation Australia Ltd  
On behalf of the IACID Organising Committee

## Important Announcements

### Call for Papers: International Workshop on Modernizing Irrigation and Drainage Services, Adelaide, 2022

The main theme of the International Workshop is Modernizing Irrigation and Drainage, with a focus on the arrangements for the provision of irrigation services. Arrangements for upgrading irrigation and drainage services go beyond rehabilitation of infrastructure to include the institutional and management arrangements required to enable irrigation supplies to be responsive to farmers' requirements. The objective of the

Workshop is to bring together irrigators, system operators and researchers to present and discuss the current state of knowledge and experiences in creating irrigation and drainage services that are responsive to the changing needs of farmers and the environments in which irrigation and/or drainage takes place. [https://icid-ciid.org/icid\\_data\\_web/call-papers\\_M&R\\_2022.pdf](https://icid-ciid.org/icid_data_web/call-papers_M&R_2022.pdf)

### 11th International Drainage Symposium; 30 August - 02 September; Des Moines, Iowa

Solutions to agricultural drainage challenges and opportunities will focus on the 11th International Drainage Symposium, held on August 30-September 2, 2022 at the Marriott Des Moines

Downtown in Des Moines, Iowa, USA. Two days of sessions will highlight the challenge of increasing agricultural production on the world's poorly drained soils in a changing climate, with ever-increasing water quality and quantity concerns, which will require technical, economic, policy, and social perspectives. The third day of the Symposium will feature field tours highlighting some innovative drainage work happening in the local area. The Symposium will provide an opportunity for the research, agency, industry, and practitioner communities to interact, share experiences, and address emerging issues related to agricultural drainage. For more information, please click the link: <https://www.swcs.org/events/conferences/22ids/>

## International Workshop on Public-Private-Partnership (PPPs) in Irrigation and Drainage Operation and Maintenance Toward Sustainable Irrigated Agricultural Water Management, 04 October 2022, Adelaide, Australia

The objective of this Workshop is to follow-up the IOA Workshop in Denpasar, Bali, Indonesia, that was conducted on 02 September 2019 on the theme “Participatory Irrigation/ Drainage Management – PIDM and Management Transfer, Approaches and condition for successful PIDM” to provide subsequently for a wider platform for irrigation and drainage professionals in the scope of activities related to the comprehensive mandate of WG-IOA, particularly in this proposal related with Mandate 3, which is “Public-Private Partnership (PPPs) in irrigation and drainage operation as well as Mechanism for Cost Recovery”, covering among others: possibilities of and requirements for successful Public-Private Partnerships (PPPs) in irrigation/ drainage operation and management; methods and mechanisms for charging of irrigation/ drainage services; and determination of the level of cost recovery. The workshop materials will therefore be based on review experiences and approach with IOA in the countries or regions with practical experiences on PPPs under the PIDM or IDMT programs both on conventional irrigation and micro-irrigation technology practices toward sustainable agriculture water management.

**For more information, contact coordinates:**

**Workshop Chairperson:** Dr. Hafied A. Gany, P.Eng. Chairman, WG-IOA (hafiedgany@yahoo.com; hafiedgany@gmail.com)

**Workshop Coordinator:** Er. Harish Kumar Varma, Executive Director, ICID Central Office (icid@icid.org) Or click the link: [https://icid-ciid.org/icid\\_data\\_web/callpaperswgioa2022.pdf](https://icid-ciid.org/icid_data_web/callpaperswgioa2022.pdf)

## Call for Papers International Workshop on “Managing on the Regional, State or Local Level, Water Scarcity Resulting from Conflicting Demands”

Water scarcity is both a natural and a human-made phenomenon. It is projected that by 2025, two-thirds of the world’s population may face water shortages at the current consumption rate. Water shortages may be caused by climate change, increased population, increased recognition of environmental needs for water and increased human demand. Water scarcity can be in the form of physical water scarcity and economic water scarcity. Physical water scarcity refers to a situation where natural water resources are unable to meet a region’s demand, and economical water scarcity is a result of poor water resource management.

The main theme of the International Workshop of WG-MWSCD is “Managing, on the Regional, State and Local Levels, Water Scarcity Resulting from Conflicting Demands”. The Workshop is being organized by ICID’s Working Group on Managing Water Scarcity under Conflicting Demands (WG-MWSCD) during 24th ICID Congress & 73rd International Executive Council (IEC) meeting from 3-10 October 2022 in Adelaide, Australia.

For more information, contact coordinates:

**Workshop Chairman:** VPH Franklin E. Dimick, Chair WG-MWSCD (E-mail: frankdimick@gmail.com)

**Workshop Coordinator:** Er. Harish Kumar Varma, Executive Director, ICID Central Office (icid@icid.org)

For more information click [https://www.icid.org/ws\\_mwscd\\_sep2020.pdf](https://www.icid.org/ws_mwscd_sep2020.pdf)

## Call for Papers International Workshop on The Water-Energy-Food-Nexus: Implementation and Examples of Applications

**Objectives:** This Workshop will bring together experts from all over the world to share information, experience, and views on implementing the water-energy-food nexus in agriculture. The focus will be on the practical application and address the three elements of the Nexus: Water, Food and Energy.

The main theme of the International Workshop of Working Group is “The Water-Energy-Food-Nexus: Implementation and Examples of Applications”.

For more information, contact:

**Workshop Chairman:** Dr Ragab Ragab, President of ICID, Chairman of the Working Group on “Water-Energy-Food Nexus”, and Fellow at UK Centre for Ecology & Hydrology, UKCEH, UK. E-mail: ragab@icid.org

Dr. K Yella Reddy, Vice President Hon. ICID; Dean, AMGR Agricultural University; Secretary, WG on “Water-Energy-Food Nexus” E-mail: yellark@gmail.com; and Former Director (A&R), WALAMTARI, Hyderabad, India

**Workshop Coordinator:** Er. Balasaheb Anantrao Chivate, Director (Technical), International Commission on Irrigation and Drainage (ICID) (E-mail: icid@icid.org), New Delhi, India Or, Click the link [https://icid-ciid.org/icid\\_data\\_web/wsp2022\\_wfe-n.pdf](https://icid-ciid.org/icid_data_web/wsp2022_wfe-n.pdf)

## Call for abstracts for the International Workshop on “Nonconventional Irrigation in High Value Agriculture - Application of Modern Technologies” to be held on 04 October 2022, Adelaide, South Australia

This Workshop is being organized by the Working Group on Use of Non-conventional Water Resources for Irrigation (WG-NCWRI), under the auspices of the International Commission for Irrigation and Drainage (ICID) in conjunction with the Irrigation Australia Limited (IAL).

**Workshop Themes:**

- Fundamental/Applied science of non-conventional water irrigation and drainage
- Application of sensors and remote sensing in high-value horticulture
- Numerical modelling for better decision making of using non-conventional water in orchards
- Environmental, economic, social, and cultural aspects of non-conventional irrigation
- Gender equity in high-value horticulture irrigated with non-conventional water

For more information, please click the link [https://icid-ciid.org/icid\\_data\\_web/Workshop\\_AMT.pdf](https://icid-ciid.org/icid_data_web/Workshop_AMT.pdf)

## 10<sup>th</sup> International Micro Irrigation Conference organized by ANAFIDE 25-27 January 2023 in Dakhla, Morocco

The International Commission on Irrigation and Drainage (ICID) proudly announces the convening of the 10th International Micro Irrigation Conference in Dakhla Morocco, and invites the irrigation and drainage professionals from the world over to contribute and showcase their work through the presentation of papers.

The International Micro Irrigation Conference (IMIC) aims to bring together all the stakeholders relevant to the field of irrigation, drainage, and other related aspects of water management. IMIC is a multi-sectoral platform creating avenues for discussions and engagement for everyone, the governments of relevant countries, policymakers, the multi-lateral and bi-lateral organizations, civil society institutions, the grass-root farmers as well as corporate leaders. Every IMIC attracts veterans, experts, and acclaimed researchers and academicians from various sectors to bring all possible issues and forthcoming solutions to the International Micro Irrigation Conference concerning the sector. In fact, in its 9th edition, IMIC held in Aurangabad, India, in January 2020 witnessed participation of several hundreds of attendees.

The 10th International Micro Irrigation Conference, jointly hosted by the Moroccan National Committee on Irrigation and Drainage (ANAFIDE) and ICID with support from the Directorate of Irrigation and Agricultural Land Planning (DIAEA), will be held during 25-27 January 2023 in the Conference center of the city of Dakhla in Southern Morocco. Beside being a true heaven of peace between lagoon and ocean, Dakhla is a growing economical center with increasing areas of irrigated land where high value added crops are grown in greenhouses. An important irrigation project will soon be implemented in the region of Dakhla. It consists of irrigating an area of

5,000 ha using desalinated sea water powered by wind energy.

### Theme: Micro-irrigation in the Era of Technology Innovation and Digital Transformation

Given the above, papers are invited and discussed under the following Sub-themes:

**Sub-Theme 1:** Public Policies and the Promotion of Micro Irrigation: Lessons Learned

**Sub-Theme 2:** Innovation in Micro-Irrigation Design and Technology to Improve Resilience to Climate Change

**Sub-Theme 3:** Micro-Irrigation for small-Scale Farming, Challenges, Opportunities and Initiatives

**Sub-Theme 4:** Micro Irrigation to Promote the Nexus "Water - Energy - Food"

**Sub-Theme 5:** Digital Transformation for the Management of Micro-Irrigation

**Sub-Theme 6:** International Coopération for the Developpement of Micro Irrigation

### Schedule for submission of abstracts/ full papers

- i. Submission of extended abstracts (max. 300 words) — **15 September 2022**
- ii. Notification of Acceptance — **15 October 2022**
- iii. Submission of full paper (10 pages of A4 size) — **30 November 2022**

- iv. Notification to the author regarding oral/poster presentation — **15 December 2022**

### Online paper submission

- 1 Online 'Extended Abstract' submission is now open. New Users are expected to create their own accounts. The procedure for creating a new account is available at <[www.10imici.ma](http://www.10imici.ma)>
- 2 Please send an 'Extended Abstract' of your proposed paper using the corresponding template in [www.10imici.ma](http://www.10imici.ma)
- 3 Upon receiving an acceptance letter from the conference organizer, authors with accepted abstracts will be required to provide an electronic version of the full-length papers in Microsoft Word format using the provided template from <[www.10imici.ma](http://www.10imici.ma)>

### Contact Coordinates:

#### 10IMIC Scientific Secretariat:

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## Fourth World Irrigation Forum (WIF4) 16-22 April 2023, Beijing, China

The International Commission on Irrigation and Drainage (ICID) proudly announces the convening of the Fourth World Irrigation Forum (WIF4) in Beijing, China, and invites the irrigation and drainage professionals from the world over to contribute and showcase their work through the presentation of papers.

The ICID triennial World Irrigation Forum (WIF) aims to bring together all the stakeholders relevant to the field of irrigation, drainage, and other aspects of water management. WIF is a multi-sectoral platform creating avenues for discussions and engagement for everyone, the governments of relevant

countries, policymakers, the multi-lateral and bi-lateral organizations, civil society institutions, the grass-root farmers as well as corporate leaders. Every WIF attracts veterans, experts, and acclaimed researchers and academicians from various sectors to bring all possible issues and forthcoming solutions to the forum concerning the sector. In fact, in its third-year only, WIF3 held in Bali, Indonesia in September 2019 witnessed a footfall of over fifteen hundred participants.

The Fourth World Irrigation Forum (WIF4) together with the 74th International Executive Council (IEC) Meeting, jointly hosted by ICID,

the Ministry of Water Resources of the People's Republic of China, and the Chinese National Committee on Irrigation and Drainage (CNCID), and organized by China Institute of Water Resources and Hydropower Research, will be held during 16-22 April 2023 in Beijing, China.

### Theme: Modernization of Irrigation Systems

For decades now, pursuing and achieving water security has become one of the top most agendas of global development. Increasing population and subsequent development demand an increasing amount of freshwater for

consumption. Historically, irrigated agriculture has been the biggest freshwater consumer, but its share is reducing due to its limited availability as well as competition from other sectors. However, in the current scenario of increasing water scarcity, agriculture and subsequently food security will bear the brunt of this reduced supply. Thus, improving the irrigation water management and propagating modernization of irrigation systems is of utmost importance in current times.

Modernization of irrigation systems entails holistic improvement of resource mobilization, delivery to the farm gates, water saving techniques, management practices, policies, institutional and financing mechanisms that ultimately result in agricultural, social, environmental and economic benefits. The topic of modernization and revitalization of irrigation systems is relevant to the vision and mission of ICID and of interest to its members. Thus, the flagship event of ICID, World Irrigation Forum 4, WIF4 aims to highlight the importance of modernization of irrigation systems and discuss, in detail, different aspects of it, outlined in the sub-themes (ST):

Given the above, papers are invited and discussed under the following Sub-themes:

**Sub-Theme 1: Policy and strategy for modernization of irrigation systems**

**Sub-Theme 2: Technology for modernization of irrigation systems**

**Sub-Theme 3: Financing for modernization of irrigation systems**

**Sub-Theme 4: Performance assessment of Irrigation systems**

**ST-1: Policy and strategy for modernization of irrigation systems**

**ST 1.1** Development planning for modernization including the overall vision, development layout, roadmap of implementation, safeguard measures, etc.

**ST 1.2** Supporting policies for modernization adopted by all levels of government on matters such as investment, construction material, facilities and equipment, operation and maintenance, management system and mechanisms

**ST 1.3** Laws and regulations supporting and safeguarding modernization and preparing a conducive social and economic environment for ensuring longevity of the measures

**ST 1.4** WEF4 (Water-Energy-Food-Ecosystems) nexus approaches for managing trade-offs and enhancing synergies

**ST-2: Technology for Modernization of Irrigation Systems**

**ST 2.1** Engineering technologies for modernization: water consumption monitoring technologies, coordinated multi-water-source allocation technologies, handling of aging infrastructure for water resources storage and conveyance, responsive canal network/pipeline water delivery and distribution technologies, scheduling and control technologies of water use, on-farm irrigation technologies, etc.

**ST 2.2** Management technologies for modernization: Smart-water management technologies including information sensing and transmission technologies, data governance and integration, establishment of a knowledge base, decision support system, drone applications in improving precision irrigation management and scheduling, etc.

**ST 2.3** Technical standards system for modernization: the dimensions modernization, the expected results of modernization, comparative studies of technical standards of different countries, etc.

**ST 2.4** Innovative approaches for irrigation performance appraisal including landscape-based approaches

**ST-3: Financing for Modernization of Irrigation Systems**

**ST 3.1** Investment by all levels of government

**ST 3.2** Investment by the private sector and the banking sector

**ST 3.3** Investment by the beneficiaries, such as farmers, WUAs, etc.

**ST 3.4** Investments and revenue models for sustained asset management of irrigation systems for its operation and maintenance

**ST 3.5** Investments for Asset Management of Irrigation Systems for improved services delivery

**ST-4: Performance Assessment of Irrigation Systems**

**ST 4.1** Assessment of physical infrastructures such as storage and diversion work, canal networks, pumping stations, water gates, etc.

**ST 4.2** Assessment of management and water service delivery

**ST 4.3** Assessment of socio-economic, eco-environment and natural resources benefits for improved productivity

A brief 'Concept Note' of the above sub-themes is given in the accompanying tabs and is also available as a download document on the contributions management portal at <https://wif.icidevents.org/about.aspx>

**Schedule for submission of abstracts/ full papers**

- i. Submission of extended abstracts (max. 300 words) — **15 July 2022**
- ii. Notification of Acceptance — **15 August 2022**
- iii. Submission of full paper (10 pages of A4 size) — **15 October 2022**
- iv. Notification to the author regarding oral/poster presentation — **15 December 2022**

**Online paper submission**

1. Online 'Extended Abstract' submission is now open. New Users are expected to create their own accounts. The procedure for creating a new account is available at [https://wif.icidevents.org/Register\\_Modify.aspx](https://wif.icidevents.org/Register_Modify.aspx) and for more help visit the guidelines for use of the Portal
2. Please note that only the 'Extended Abstracts' of the papers are required in the first stage of submission to enable peer review by an International Review Committee. PLEASE DO NOT SUBMIT THE FULL PAPERS AT THIS STAGE as they would not be reviewed now.
3. Upon receiving an acceptance letter from ICID Central Office, authors are required to provide/upload an electronic version of the full-length papers in the given template in Microsoft Word format by strictly following the guidelines available at [https://wif.icidevents.org/InfoDocs/guidelines\\_wif4\\_papers.pdf](https://wif.icidevents.org/InfoDocs/guidelines_wif4_papers.pdf)

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## 25th International Congress on Irrigation and Drainage

6-13 November, 2023, Vizag (Visakhapatnam), Andhra Pradesh, India

The 25th ICID International Congress on Irrigation and Drainage and the 75th International Executive Council Meeting is being organized by the Govt of Andhra Pradesh and the Indian Irrigation Commission on Irrigation & Drainage (INCID) on the main theme "Tackling Water Scarcity in 'Agriculture' during 06 – 13 November, 2023 at Vizag (Visakhapatnam), India. During the Congress, the papers will be presented and discussed, answering Questions 64 & 65.

In addition, Special Sessions, Symposiums, Training, Workshops, and a large number of side events will also be held as part of this mega event.

International Commission on Irrigation and Drainage (ICID) strives for a water-secure world free of poverty and hunger through its mission to facilitate prudent agriculture water management. "Enabling Higher Crop Productivity with Less Water Energy" is the most cherished goal of ICID Vision 2030. Through its tri-annual Congresses, ICID, provides a forum to exchange knowledge, information and technology solutions alternative water resources and increasing water productivity through on-farm interventions to tackle agricultural water scarcity.

**QUESTION 64: What alternative water resources could be tapped for irrigated agriculture?**

**Q.64.1: Reinforcing conventional sources of irrigation water**

**Q.64.2: Tapping non-conventional sources of water**

**Q.64.3: Empowerment of farmers**

**QUESTION 65: Which on-farm techniques can increase water productivity?**

**Q.65.1: Improving management of existing facilities**

**Q.65.2: Improved agronomics practices**

**Q.65.3: Efficient application of irrigated water**

**SEMINAR: National policies for safe re-use of wastewater in irrigation**

**Symposium: Tackling Climate Change – Role of Storages for Irrigation**

**Contact Organizer:**

**Indian National Committee on Irrigation and Drainage (INCID),** Mr. R. Girdhar, Director, Indian National Committee on Irrigation and Drainage (INCID) C/o Remote Sensing Directorate, Central Water Commission, Department of Water Resources (RD and GR), Ministry of Jal Shakti, Govt. of India, 425(N), Sewa Bhawan, R.K. Puram, New Delhi 110066 and **Andhra Pradesh Government: VPH** Dr. Yella Reddy, E-mail: [icid.25congress@gmail.com](mailto:icid.25congress@gmail.com), [yellark@gmail.com](mailto:yellark@gmail.com), Website: [www.icid25congress.in](http://www.icid25congress.in)

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### ICID Forthcoming Events

**73rd IEC Meeting and 24th ICID Congress 3-10 October 2022, Adelaide, Australia** Theme: Innovation and research in agriculture water management to achieve sustainable development goals Website: <https://www.icid2022.com.au/>

**GEOSYNTHETICS EVENTS: Held at ICID Congress & Irrigation Australia Conference**

The Geosynthetics Event at the ICID Congress and Irrigation Australia Conference – Adelaide October 2022 - Enhancing the performance of Canals, Reservoirs and Dams with Geosynthetics. The International Geosynthetics Society (IGS), in collaboration with Irrigation Australia (IAL) and the International Commission on Irrigation & Drainage (ICID), has agreed to host a one-day workshop at the ICID 24th Irrigation Congress and Irrigation Australia Conference and Exhibition at the Adelaide Convention Centre on 04 October 2022 on enhancing the performance of canals, reservoirs and dams using geosynthetics.

**74th IEC Meeting and 4th World Irrigation Forum 16-22 April 2023, Beijing, China.** Theme: Modernization of Irrigation Schemes (MIS)- Water saving & Green development (Tentative), NC Contact: Mr. Gao Lihui, Executive Secretary, Chinese National Committee on Irrigation and Drainage (CNCID), 1, Yuyuantan South Road Beijing 100038, E-mail: [gaolh@jwhr.com](mailto:gaolh@jwhr.com), [cncid\\_office@sina.com](mailto:cncid_office@sina.com), [lihui.gao@qq.com](mailto:lihui.gao@qq.com). Location - Guoce International Convention & Exhibition Center, Beijing, China

**75th IEC Meeting and 25th ICID Congress 6-13 November 2023, Vizag, Andhra Pradesh, India.** Theme: Tackling Water Scarcity

in Agriculture Contact: [rishi1964@yahoo.com](mailto:rishi1964@yahoo.com), [yellark@gmail.com](mailto:yellark@gmail.com)

**10th International Micro Irrigation Conference 25-27 January 2023, Agadir - Dakhla, Morocco.** Theme: Micro Irrigation in the Era of Technology, Innovation and Digital Transformation, Website: <http://10imic.ma/>

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**76th IEC Meeting and 9th Asian Regional Conference 1-7 September 2024, Sydney, Australia.** Website: <http://www.irrigationaustralia.com.au/>

**77th IEC Meeting and 5th World Irrigation Forum May 2025, Kuala Lumpur, Malaysia.** Theme: Challenges and future needs in the modernization of irrigation for food security and sustainability.

### Other Event

**2nd WASAG International Forum on Water Scarcity In Agriculture** "Making Agriculture Resilient to Climate Change: Water Scarcity an Opportunity for action and collaboration". 2-5 November 2022, House of Parliament Praia, Cabo Verde. <https://www.fao.org/wasag>

**Rainwater Harvesting Webinar Series on Water efficiency, productivity and sustainability in the NENA regions (WEPS-NENA).** For more information, please click the link: <https://www.fao.org/in-action/water-efficiency-nena/webinars/rainwaterharvesting/en/>



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